RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	09/724569 B
Source:	1FW16
Date Processed by STIC:	5/12/5
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ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 05/12/2005
PATENT APPLICATION: US/09/724,569B TIME: 10:49:00

Input Set : A:\152706446 2nd Sub Seq List.txt
Output Set: N:\CRF4\05122005\I724569B.raw

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4 <110> APPLICANT: Anderson, John P.
        Basi, Guriqbal
        Doane, Minh Tam
6
7
        Frigon, Normand
        John, Varghese
8
        Power, Michael
9
        Sinha, Sukanto
10
11
        Tatsuno, Gwen
        Tung, Jay
12
13
        Wang, Shuwen
        McConlogue, Lisa
16 <120> TITLE OF INVENTION: Beta-Secretase Enzyme Compositions and
        Methods
19 <130> FILE REFERENCE: 228-US-NEW2C6
21 <140> CURRENT APPLICATION NUMBER: 09/724,569B
22 <141> CURRENT FILING DATE: 2000-11-28
24 <150> PRIOR APPLICATION NUMBER: US 09/501,708
25 <151> PRIOR FILING DATE: 2000-02-10
27 <150> PRIOR APPLICATION NUMBER: 60/119,571
28 <151> PRIOR FILING DATE: 1999-02-10
30 <150> PRIOR APPLICATION NUMBER: 60/139,172
31 <151> PRIOR FILING DATE: 1999-06-15
33 <160> NUMBER OF SEQ ID NOS: 104
35 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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38 <211> LENGTH: 1503
39 <212> TYPE: DNA
40 <213> ORGANISM: Homo sapiens
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44 ggcacccage aeggeateeg getgeeeetg egeageggee tggggggege eeeeetgggg
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46 gtggagatgg tggacaacct gaggggcaag tcggggcagg gctactacgt ggagatgacc
47 gtgggcagcc ccccgcagac gctcaacatc ctggtggata caggcagcag taactttgca
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48 gtgggtgctg cccccaccc cttcctgcat cgctactacc agaggcagct gtccagcaca
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                                                                       420
49 taccgggacc tccggaaggg tgtgtatgtg ccctacaccc agggcaagtg ggaaggggag
50 ctgggcaccg acctggtaag catcccccat ggccccaacg tcactgtgcg tgccaacatt
                                                                       480
51 gctgccatca ctgaatcaga caagttcttc atcaacggct ccaactggga aggcatcctg
                                                                       540
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52 gggetggeet atgetgagat tgeeaggeet gaegaeteee tggageettt etttgaetet
53 ctqqtaaaqc aqacccacqt tcccaacctc ttctccctgc agctttqtqq tqctgqcttc
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54 cccctcaacc agtctgaagt gctggcctct gtcggaggga gcatgatcat tggaggtatc
                                                                       720
55 gaccactcgc tgtacacagg cagtetetgg tatacaccca teeggeggga gtggtattat
                                                                       780
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56 qaqqtqatca ttgtgcgqqt ggaqatcaat qqacaqgatc tgaaaatgga ctgcaaggag
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Input Set : A:\152706446 2nd Sub Seq List.txt
Output Set: N:\CRF4\05122005\I724569B.raw

57 tacaactatg acaagagcat tgtggacagt ggcaccacca accttcgttt gcccaagaaa 900 58 gtgtttgaag ctgcagtcaa atccatcaag gcagcctcct ccacggagaa gttccctgat 960 59 ggtttctggc taggagagca gctggtgtgc tggcaagcag gcaccacccc ttggaacatt 1020 60 ttcccagtca tctcactcta cctaatgggt gaggttacca accagtcctt ccgcatcacc 1080 61 atccttccgc agcaatacct gcggccagtg gaagatgtgg ccacgtccca agacgactgt 1140 62 tacaagtttg ccatctcaca gtcatccacg ggcactgtta tgggagctgt tatcatggag 1200 63 ggcttctacg ttgtctttga tcgggcccga aaacgaattg gctttgctgt cagcgcttgc 1260 64 catgtgcacg atgagttcag gacggcagcg gtggaaggcc cttttgtcac cttggacatg 1320 65 gaagactgtg gctacaacat tccacagaca gatgagtcaa ccctcatgac catagcctat 1380 66 gtcatggctg ccatctgcg cctcttcatg ctgccactct gcctcatggt gtgtcagtgg 1440 67 cgctgcctcc gctgcctgcg ccagcagcat gatgactttg ctgatgacat ctccctgctg 1500 68 aag 1503
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72 <212> TYPE: PRT
73 <213> ORGANISM: Homo sapiens
75 <400> SEQUENCE: 2
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77 1 5 10 15
78 Leu Pro Ala His Gly Thr Gln His Gly Ile Arg Leu Pro Leu Arg Ser
79 20 25 30
80 Gly Leu Gly Gly Ala Pro Leu Gly Leu Arg Leu Pro Arg Glu Thr Asp
81 35 40 45
82 Glu Glu Pro Glu Glu Pro Gly Arg Arg Gly Ser Phe Val Glu Met Val
83 50 55 60
84 Asp Asn Leu Arg Gly Lys Ser Gly Gln Gly Tyr Tyr Val Glu Met Thr
85 65 70 75 80
86 Val Gly Ser Pro Pro Gln Thr Leu Asn Ile Leu Val Asp Thr Gly Ser
87 85 90 95
88 Ser Asn Phe Ala Val Gly Ala Ala Pro His Pro Phe Leu His Arg Tyr
89 100 105 110
90 Tyr Gln Arg Gln Leu Ser Ser Thr Tyr Arg Asp Leu Arg Lys Gly Val
91 115 120 125
92 Tyr Val Pro Tyr Thr Gln Gly Lys Trp Glu Gly Glu Leu Gly Thr Asp
93 130 135 140
94 Leu Val Ser Ile Pro His Gly Pro Asn Val Thr Val Arg Ala Asn Ile
95 145 150 155 160
96 Ala Ala Ile Thr Glu Ser Asp Lys Phe Phe Ile Asn Gly Ser Asn Trp
97 165 170 175
98 Glu Gly Ile Leu Gly Leu Ala Tyr Ala Glu Ile Ala Arg Pro Asp Asp
99 180 185 190
100 Ser Leu Glu Pro Phe Phe Asp Ser Leu Val Lys Gln Thr His Val Pro
101 195 200 205
102 Asn Leu Phe Ser Leu Gln Leu Cys Gly Ala Gly Phe Pro Leu Asn Gln 103 210 215 220
103 210 215 220 104 Ser Glu Val Leu Ala Ser Val Gly Gly Ser Met Ile Ile Gly Gly Ile
104 Ser Giu var Leu Ara Ser var Gry Gry Ser Met Tre Tre Gry Gry Tre 105 225 230 235 240
105 225 230 230 240 106 Asp His Ser Leu Tyr Thr Gly Ser Leu Trp Tyr Thr Pro Ile Arg Arg
107 245 250 255

Input Set : A:\152706446 2nd Sub Seq List.txt
Output Set: N:\CRF4\05122005\1724569B.raw

108 Glu Trp Tyr Tyr Glu Val Ile Ile Val Arq Val Glu Ile Asn Gly Gln 109 260 265 110 Asp Leu Lys Met Asp Cys Lys Glu Tyr Asn Tyr Asp Lys Ser Ile Val 275 285 112 Asp Ser Gly Thr Thr Asn Leu Arg Leu Pro Lys Lys Val Phe Glu Ala 295 300 114 Ala Val Lys Ser Ile Lys Ala Ala Ser Ser Thr Glu Lys Phe Pro Asp 310 315 116 Gly Phe Trp Leu Gly Glu Gln Leu Val Cys Trp Gln Ala Gly Thr Thr 325 330 118 Pro Trp Asn Ile Phe Pro Val Ile Ser Leu Tyr Leu Met Gly Glu Val 119 340 345 120 Thr Asn Gln Ser Phe Arg Ile Thr Ile Leu Pro Gln Gln Tyr Leu Arg 360 122 Pro Val Glu Asp Val Ala Thr Ser Gln Asp Asp Cys Tyr Lys Phe Ala 375 380 124 Ile Ser Gln Ser Ser Thr Gly Thr Val Met Gly Ala Val Ile Met Glu 390 126 Gly Phe Tyr Val Val Phe Asp Arg Ala Arg Lys Arg Ile Gly Phe Ala 405 410 128 Val Ser Ala Cys His Val His Asp Glu Phe Arg Thr Ala Ala Val Glu 420 425 130 Gly Pro Phe Val Thr Leu Asp Met Glu Asp Cys Gly Tyr Asn Ile Pro 435 440 445 132 Gln Thr Asp Glu Ser Thr Leu Met Thr Ile Ala Tyr Val Met Ala Ala 450 455 134 Ile Cys Ala Leu Phe Met Leu Pro Leu Cys Leu Met Val Cys Gln Trp 470 475 136 Arg Cys Leu Arg Cys Leu Arg Gln Gln His Asp Asp Phe Ala Asp Asp 138 Ile Ser Leu Leu Lys 139 500 141 <210> SEQ ID NO: 3 142 <211> LENGTH: 24 143 <212> TYPE: DNA 144 <213> ORGANISM: Homo sapiens 146 <400> SEQUENCE: 3 147 gagagacgar garccwgagg agcc 24 149 <210> SEQ ID NO: 4 150 <211> LENGTH: 24 151 <212> TYPE: DNA 152 <213> ORGANISM: Artificial Sequence 154 <220> FEATURE: 155 <223> OTHER INFORMATION: Degenerate oligonucleotide primer derived from SEQ ID NO: 2 158 <400> SEQUENCE: 4 159 gagagacgar garccwgaag agcc 24 161 <210> SEQ ID NO: 5 162 <211> LENGTH: 24

Input Set : A:\152706446 2nd Sub Seq List.txt
Output Set: N:\CRF4\05122005\I724569B.raw

163 <212> TYPE: DNA 164 <213> ORGANISM: Artificial Sequence 166 <220> FEATURE: 167 <223> OTHER INFORMATION: Degenerate oligonucleotide primer derived from SEQ ID NO: 2 170 <400> SEQUENCE: 5 24 171 gagagacgar garccwgaag aacc 173 <210> SEO ID NO: 6 174 <211> LENGTH: 24 175 <212> TYPE: DNA 176 <213> ORGANISM: Artificial Sequence 178 <220> FEATURE: 179 <223> OTHER INFORMATION: Degenerate oligonucleotide primer derived from SEQ ID NO: 2 182 <400> SEQUENCE: 6 183 gagagacgar garccwgagg aacc 24 185 <210> SEQ ID NO: 7 186 <211> LENGTH: 23 187 <212> TYPE: DNA 188 <213> ORGANISM: Artificial Sequence 190 <220> FEATURE: 191 <223> OTHER INFORMATION: Degenerate oligonucleotide primer derived from SEQ ID NO: 2 194 <400> SEQUENCE: 7 195 agagacgarg arccsgagga gcc 23 197 <210> SEQ ID NO: 8 198 <211> LENGTH: 23 199 <212> TYPE: DNA 200 <213> ORGANISM: Artificial Sequence 202 <220> FEATURE: 203 <223> OTHER INFORMATION: Degenerate oligonucleotide primer derived from SEQ 204 ID NO: 2 206 <400> SEQUENCE: 8 23 207 agagacgarg arccsgaaga gcc 209 <210> SEQ ID NO: 9 210 <211> LENGTH: 23 211 <212> TYPE: DNA 212 <213> ORGANISM: Artificial Sequence 214 <220> FEATURE: 215 <223> OTHER INFORMATION: Degenerate oligonucleotide primer derived from SEQ 216 ID NO: 2 218 <400> SEOUENCE: 9 23 219 agagacgarg arccsgaaga acc 221 <210> SEQ ID NO: 10 222 <211> LENGTH: 23 223 <212> TYPE: DNA 224 <213> ORGANISM: Artificial Sequence

227 <223> OTHER INFORMATION: Degenerate oligonucleotide primer derived from SEQ

226 <220> FEATURE:

Input Set : A:\152706446 2nd Sub Seq List.txt
Output Set: N:\CRF4\05122005\1724569B.raw

228 ID NO: 2 230 <400> SEQUENCE: 10 23 231 agagacgarg arccsgagga acc 233 <210> SEQ ID NO: 11 234 <211> LENGTH: 23 235 <212> TYPE: DNA 236 <213> ORGANISM: Artificial Sequence 238 <220> FEATURE: 239 <223> OTHER INFORMATION: Degenerate oligonucleotide primer derived from SEQ 240 ID NO: 2 242 <400> SEQUENCE: 11 243 cgtcacagrt trtcaaccat ctc 23 245 <210> SEQ ID NO: 12 246 <211> LENGTH: 23 247 <212> TYPE: DNA 248 <213> ORGANISM: Artificial Sequence 250 <220> FEATURE: 251 <223> OTHER INFORMATION: Degenerate oligonucleotide primer derived from SEQ 252 ID NO: 2 254 <400> SEQUENCE: 12 255 cgtcacagrt trtctaccat ctc 23 257 <210> SEQ ID NO: 13 258 <211> LENGTH: 23 259 <212> TYPE: DNA 260 <213> ORGANISM: Artificial Sequence 262 <220> FEATURE: 263 <223> OTHER INFORMATION: Degenerate oligonucleotide primer derived from SEQ 264 ID NO: 2 266 <400> SEQUENCE: 13 267 cgtcacagrt trtccaccat ctc 23 269 <210> SEQ ID NO: 14 270 <211> LENGTH: 23 271 <212> TYPE: DNA 272 <213> ORGANISM: Artificial Sequence 274 <220> FEATURE: 275 <223> OTHER INFORMATION: Degenerate oligonucleotide primer derived from SEQ 276 ID NO: 2 278 <400> SEQUENCE: 14 23 279 cgtcacagrt trtcgaccat ctc 281 <210> SEQ ID NO: 15 282 <211> LENGTH: 23 283 <212> TYPE: DNA 284 <213> ORGANISM: Artificial Sequence 286 <220> FEATURE: 287 <223> OTHER INFORMATION: Degenerate oligonucleotide primer derived from SEQ ID NO: 2 290 <400> SEQUENCE: 15 291 cgtcacagrt trtcaaccat ttc 23 293 <210> SEQ ID NO: 16

Input Set : A:\152706446 2nd Sub Seq List.txt
Output Set: N:\CRF4\05122005\1724569B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:22; N Pos. 12
Seg#:23; N Pos. 12
Seq#:24; N Pos. 12
Seq#:25; N Pos. 12
Seq#:26; N Pos. 7
Seq#:27; N Pos. 7
Seq#:28; N Pos. 3,12
Seq#:29; N Pos. 3,12
Seg#:34; N Pos. 16
Seq#:35; N Pos. 16
Seq#:36; N Pos. 16
Seq#:37; N Pos. 16
Seq#:48; N Pos. 6164,6238,6254,6255,6256,6257,6258,6259,6260,6261,6262,6263
Seq#:48; N Pos. 6264,6265,6266,6267,6268,6269,6270,6271,6272
Seq#:61; Xaa Pos. 4
Seq#:72; Xaa Pos. 10
Seq#:73; Xaa Pos. 5
Seq#:76; N Pos. 6,18,27,30,33,36,39,42,48,57
Seq#:78; Xaa Pos. 3
Seq#:81; Xaa Pos. 4
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/724,569B TIME: 10:49:01

DATE: 05/12/2005

Input Set : A:\152706446 2nd Sub Seq List.txt
Output Set: N:\CRF4\05122005\1724569B.raw

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